

ENVIRONMENTAL STUDIES SERVICE CENTER  
STONEVILLE, MISSISSIPPI

SUMMARY OF WEATHER OBSERVATIONS - 1979

|                               | JAN   | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC   | ANNUAL |
|-------------------------------|-------|------|------|-------|------|------|------|------|------|------|------|-------|--------|
| Temperature                   |       |      |      |       |      |      |      |      |      |      |      |       |        |
| verage Maximum                | 41.0  | 48.1 | 66.0 | 73.0  | 79.0 | 87.1 | 89.8 | 88.6 | 82.2 | 78.7 | 61.4 | 54.8  | 70.8   |
| verage Minimum                | 27.2  | 32.4 | 45.0 | 54.9  | 60.8 | 67.9 | 72.6 | 69.3 | 61.9 | 51.1 | 38.8 | 34.8  | 51.4   |
| Departure of Mean from Normal | -10.1 | -7.1 | +1.4 | -0.8  | -2.5 | -1.9 | -0.5 | -1.8 | -2.7 | 0.0  | -3.7 | -1.4  | -2.6   |
| Highest                       | 64    | 73   | 81   | 83    | 88   | 95   | 97   | 93   | 91   | 90   | 78   | 72    | 97     |
| Lowest                        | 15    | 16   | 33   | 39    | 48   | 58   | 67   | 62   | 53   | 37   | 23   | 19    | 15     |
| Temperature Average           |       |      |      |       |      |      |      |      |      |      |      |       |        |
| -inch Maximum                 | 42.6  | 49.2 | 66.5 | 77.5  | 86.5 | 94.8 | 99.6 | 99.3 | 88.9 | 80.1 | 63.2 | 53.4  | 75.1   |
| -inch Minimum                 | 36.6  | 38.9 | 47.7 | 60.0  | 65.7 | 73.8 | 79.1 | 77.7 | 70.5 | 59.6 | 46.3 | 41.0  | 58.1   |
| -inch Maximum                 | 41.6  | 47.0 | 61.6 | 72.9  | 81.6 | 89.1 | 93.2 | 93.6 | 85.1 | 76.0 | 60.1 | 50.9  | 71.1   |
| -inch Minimum                 | 38.0  | 40.2 | 49.7 | 61.1  | 67.7 | 75.7 | 80.6 | 76.9 | 73.5 | 63.1 | 49.4 | 42.7  | 59.9   |
| -inch Maximum                 | 40.9  | 44.6 | 57.1 | 68.0  | 76.2 | 84.3 | 88.2 | 88.8 | 81.8 | 72.1 | 57.1 | 48.1  | 67.3   |
| -inch Minimum                 | 37.8  | 39.8 | 51.1 | 61.8  | 69.3 | 77.4 | 82.0 | 82.4 | 76.1 | 65.9 | 51.6 | 43.5  | 61.6   |
| Freezing Degree Days          |       |      |      |       |      |      |      |      |      |      |      |       |        |
| 30-degree base                | 53    | 130  | 482  | 709   | 931  | 1130 | 1277 | 1178 | 958  | 761  | 301  | 185   | 8095   |
| 50-degree base                | 12    | 36   | 213  | 409   | 621  | 830  | 967  | 868  | 658  | 451  | 83   | 40    | 5187   |
| 60-degree base                | 0     | 3    | 62   | 147   | 317  | 530  | 657  | 558  | 358  | 178  | 9    | 1     | 2820   |
| 65-degree base                | 0     | 0    | 22   | 60    | 182  | 380  | 502  | 403  | 209  | 81   | 0    | 0     | 1839   |
| Total Precipitation (inches)  | 11.65 | 4.24 | 5.51 | 10.22 | 7.96 | 3.68 | 6.31 | 2.84 | 5.55 | 3.57 | 7.03 | 3.20  | 71.76  |
| Departure from 1941-70 Normal | 7.02  | -.97 | -.12 | 5.13  | 3.38 | .01  | 2.53 | .06  | 2.47 | 1.06 | 2.61 | -1.79 | 21.39  |
| Maximum (inches)              | .2    | .5   | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | .7     |
| Longest Duration (inches)     | * -   | 0.79 | 4.61 | 4.44  | 7.24 | 8.02 | 7.11 | 6.52 | 4.97 | 5.44 | 2.73 | * -   | 49.87  |
| Hourly Radiation (langley)    | 173   | 223  | 394  | 438   | 516  | 595  | 542  | 546  | 460  | 409  | 304  | 234   | 4834   |

First spring freeze Feb 27. First fall freeze Nov 14. Growing season 260 days.

More Than 10 days frozen.

Additional Information: The 1979 yearly average temperature of 61.1°F was the coldest ever in the 49 years of temperature records dating back to 1931. The previous cold record was 61.6°F in 1960. There were four record lows established for particular dates - two in January, one in October, and one in December. There were no record highs.

Total rainfall of 71.76 inches was the fourth highest in the 65 years of precipitation records; highest was 76.24 inches in 1923. There were 10 days of frozen precipitation in January and February; greatest accumulation was .5 inch with the being .1 inch or less.

April through October open pan evaporation of 43.74 inches was the lowest in 21 years of evaporation records.